

Alphabetical List of Subjects

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How to Use This Index

Topical Arrangement

The subject matter covered in JOURNAL articles for the year 1978 has been divided into eight major categories, with each, in turn, broken down into subordinate topics and subtopics. For reference purposes, each topic has been given a four-digit numerical designation, the major categories being numbered 0000, 1000, etc., up to 7000. For example, the category "Water Quality and Treatment" is numbered 4000. Under that heading will be found a chronological list of articles dealing with that subject in general terms. Articles chiefly concerned with a specific subdivision—such as 4100, "Quality Standards"—are listed chronologically under the latter heading, whereas articles covering a particular aspect of quality standards—bacteriological analysis, for example—appear under the subheading 4120. (See introduction to Subject Index for additional details).

Cross References

Any topical arrangement is likely to contain a certain amount of overlapping. Articles on well pumps, for example, might logically be listed under "Wells" or "Pumps." As an added convenience, a few "catch-all" sections have been included, such as 2100 on regulation and legislation, which overlap many topics and duplicate a large number of listings. These sections may prove useful in research on broad subjects that involve many different phases of water-utility management and operation.

Alphabetical List of Subjects

As an adjunct to the topical outline previously mentioned, an alphabetical list of subjects has been provided on pp. 715-716. To keep the size of this list within practical limits, the key words have been restricted to less specific

terminology (for instance, Bacteriology is present, but not Coliform), and some obvious synonyms have been omitted (Pipelines is included; Mains is not).

The entries show topic section numbers rather than page numbers. The Subject Index (pp. 717-723) is arranged numerically by topic section.

Geographical Index

The Geographical Index (p. 724) lists the topic sections under which will be found articles dealing with particular cities, states, provinces, and foreign countries.

Author Index

An alphabetical index of authors, with subject codes and page numbers, will be found on pp. 725-726.

Subject Index

The right-hand entries are page and date. Articles have been listed in some instances under more than one topic number where the information in the article is concerned with several subjects. Where pertinent and feasible, articles are listed under the most specific breakdown code (e.g., 5810 as opposed to the more general 5000 heading). Users of the index are advised to refer to the "Alphabetical List of Subjects" to aid them in accessing this section.

An article equally applicable to two or three subjects will usually be found listed under each appropriate heading, but articles touching briefly on numerous subjects will most likely be listed only under the general headings. Thus an article on hydrants and meters would be listed under both "Valves and Hydrants" 5700 and "Meters and Services" 5900, but one dealing with services, meters, mains, pumps, and storage would probably appear only once, under "Distribution System Operation" 5000.

Page numbers preceded by the letter A refer to activities-section material.

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1110. Hydrology [Precipitation, Runoff, Reservoir Yield]

1120. Geology [Groundwater, Salt Water Intrusion]

- A Survey of Practices and Regulations for Reuse of Water by Groundwater Recharge
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- Depletion Allowance for Groundwater Mining: Pros and Cons
Tommy Knowles & Frank Rayner 148 Mar.
- Well-Field Management
C. Leon Simpson 151 Mar.
- Groundwater Law—The Riparian Problem
Alfred R. Pagan 153 Mar.
- To Mine or Not to Mine Groundwater
Robert T. Sasman & Richard J. Schicht 156 Mar.
- Status of Groundwater Contamination in the US
James J. Geraghty & David W. Miller 162 Mar.

1200. Available Supplies

- Management Strategies: Dealing With Drought
Anne M. Blackburn 51 Feb.
- Effects of the California Drought on the East Bay Municipal Utility District
John S. Harnett 69 Feb.
- Southern California's Drought Response Program
Evan L. Griffith 74 Feb.

1210. National Water Policy

1220. Regional Resources—Development and Extent

- California's Program for Dealing with the Drought
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- The California Drought—Out of Disaster, Better Water Management
Jerome B. Gilbert 79 Feb.
- Depletion Allowance for Groundwater Mining: Pros and Cons
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- To Mine or Not to Mine Groundwater
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1230. Water Rights

- Groundwater Law—The Riparian Problem
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1300. Additional Sources of Water Supply

1310. Desalting

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- A Survey of Practices and Regulations for Reuse of Water by Groundwater Recharge
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- A Case History to Evaluate the Performance of Water-Spreading Projects
William C. Bianchi, Harry I. Nightingale, & Robert L. McCormick 176 Mar.
- Fresno, Calif., Subsurface Drain Collector—Deep Well Recharge System
William C. Bianchi, Harry I. Nightingale, & Robert L. McCormick 427 Aug.

1400. Quality Surveys

1500. Water Collection

1510. Dams, Reservoirs, and Intakes

- The Effects of Pricing Policies on the Economics of Water Storage
David V. MacDonald & Kline P. Barney Jr. 246 May

1511. Evaporation Control

1520. Wells and Infiltration Galleries

- Fresno, Calif., Subsurface Drain Collector—Deep Well Recharge System
William C. Bianchi, Harry I. Nightingale, & Robert L. McCormick 427 Aug.

1530. Transmission Lines and Aqueducts

1600. Watershed Management, Protection, and Use

- Establishing Baseline Data for Management of Halifax, N.S., Lake Watersheds
D. Thirumurthi & Kok-Heng Tan 436 Aug.

1610. Public Access to Reservoirs and Watershed Land

- Establishing Baseline Data for Management of Halifax, N.S., Lake Watersheds
D. Thirumurthi & Kok-Heng Tan 436 Aug.

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Anne M. Blackburn 51 Feb.
- California's Program for Dealing with the Drought
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- Water-Conservation Methods to Meet Pennsylvania's Water Needs
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- Increasing Water System Efficiency Through Control of Unaccounted-For Water
William D. Hudson 362 Jul.

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- Water Consumption Under Peak-Responsibility Pricing
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- Conjunctive Use of Ground and Surface Water
Reza Maknoon & Stephen J. Burges 419 Aug.
- A Method for Integrating Engineering and Economic Planning
Steve H. Hanke 487 Sep.

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1730. Demand Charges and Restrictions

- Mandatory Water Conservation and Tap Allocations in Denver, Colo.
W.H. Miller 60 Feb.

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Harris F. Seidel	315 Jun.

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Alan Levin	446 Aug.

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Henry J. Graeser	492 Sep.

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Urban J. Schreiner	496 Sep.

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A. Helt, Denise Chambers, & Steven Paul	252 May
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Gary L. Owen	259 May
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William P. McLees 182 Apr.

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Joan N. Brooks, K.J. Miller, Robert C. McWhinnie, Edwin R. Bennett, & K. Daniel Linstedt 184 Apr.

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A Utility's Preparation for a Major Earthquake
Walter F. Anton 311 Jun.

The Analysis of Large, Complex Water Networks With Small Computer Systems
Eldon R. Dodge, Henry R. Hoellein, & Laszlo Tetmajer 366 Jul.

A Method for Integrating Engineering and Economic Planning
Steve H. Hanke 487 Sep.

3300. Operating Records

3400. Construction and Engineering

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Is Your Water Stable and What Difference Does It Make?
Michael D. Curry 506 Sep.

3520. Electrical Protection

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Plan for an Emergency Before It Happens
Kay Kutchins 308 Jun.

A Utility's Preparation for a Major Earthquake
Walter F. Anton 311 Jun.

3700. Automatic Operation and Control

Automatic Control for the Village of Arlington Heights, Ill.—A Case History, Part I: The History and Initial Parameters

Gene Willroth 6 Jan.

Automatic Control for the Village of Arlington Heights, Ill.—A Case History, Part II: The Utility's Design and Specifications
W.A. Bachem 8 Jan.

Automatic Control for the Village of Arlington Heights, Ill.—A Case History, Part III: The Manufacturer's Responsibility
C.A. Parnow & Ivan W. Stead 10 Jan.

A Water Utility Energy Management Program—Dallas, Texas
W.G. Trainer & David E. Clopton 113 Mar.

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Improved Quality and Efficiency Through Modernization of Facilities
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Control Systems From the Operator's Point of View
Jerry W. Garrett 358 Jul.

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A Water Utility Energy Management Program—Dallas, Texas
W.G. Trainer & David E. Clopton 113 Mar.

A Consultant Looks at Future Water Utility Energy Problems
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The Mulheim Process
Heinrich Sontheimer, Ewald Heilker, Martin R. Jekel, Heinrich Nolte, & Franz H. Vollmer 393 Jul.

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Benefits and Costs of Water Quality Improvements
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4110. Health and Hygiene

Use of Asbestos in Water Utility Construction
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Public Health Aspects of Asbestos Fibers in Drinking Water
Robert C. Cooper & W. Clark Cooper 338 Jun.

Large-Volume Sampling of Water Supplies for Microorganisms
Walter Jakubowski, Shih-Lu Chang, Theodore Eriksen, Edwin C. Lippy, & Elmer W. Akin 702 Dec.

4111. Organisms in Water Supplies

4120. Bacteriological and Biological Analyses

Large-Volume Sampling of Water Supplies for Microorganisms
Walter Jakubowski, Shih-Lu Chang, Theodore Eriksen, Edwin C. Lippy, & Elmer W. Akin 702 Dec.

4130. Chemical and Physical Analyses

The Duluth Experience—Asbestos, Water, And the Public
David L. Peterson 24 Jan.

Determination of Vinyl Chloride Migration From Polyvinyl Chloride Pipe Into Water
Ronald C. Dressman & Earl F. McFarren 29 Jan.

- An Overview of Analysis of Trace Organics in Water
Albert R. Trussell & Mark D. Umphres 595 Nov.

4140. Laboratory and Field Equipment and Technique

- Evaluation of Cartridge Filters for Removal of Small Fibers From Drinking Water
P.M. Cook, G.E. Glass, D.R. Marklund, & J.H. Tucker 459 Aug.
- Examination of Drinking Water for Mutagenic Activity
Bonita A. Glaz, Colin D. Chriswell, Michael D. Arguello, Harry J. Svec, James S. Fritz, Sandra M. Grimm, & Mark A. Thomson 465 Aug.

4200. Treatment and Treatment Plants

- Operation and Maintenance of Water Purification Plants
Peter Fowler 127 Mar.
- Improved Quality and Efficiency Through Modernization of Facilities
J.R. Popalisky 350 Jul.
- Water Treatment With Multiphase Flow Reactor and Cationic Surfactants
Lawrence K. Wang, Mu Hao Wang, Stephen M. Yaksich, & Marvin L. Granstrom 522 Sep.
- The Use of Particle Counting in Developing Plant Design Criteria
Carol H. Tate & R. Rhodes Trussell 691 Dec.

4201. Sludge Disposal

- Gravity Thickening of Water-Treatment-Plant Sludges
George Gebauer & Ingolf Janerus 47 Jan.
- Water Treatment Plant Sludges—An Update of the State of the Art: Part 1
Committee Report 498 Sep.
- Alternate Processes for Treatment of Water Plant Wastes
Stephen L. Bishop 503 Sep.
- A New Approach to Alum Recovery
Garret P. Westerhoff & David A. Cornwell 709 Dec.

4202. Sludge Analysis

4210. Taste and Odor Control

4211. Algae and Weed Control

- Algae Control in Water-Supply Reservoirs
Charles B. Muchmore 273 May

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- Colloid-Chemical Parameters for Coagulant Dose Control
Subhash Verma & Malay Chaudhuri 102 Feb.
- Tubular Settlers—A Technical Review
Roderick M. Willis 331 Jun.
- Recovery and Reuse of Iron Coagulants in Water Treatment
Paul E. Pigeon, K.D. Linstedt, & E.R. Bennett 397 Jul.
- Modified Coagulation for Improved Removal of Trihalomethane Precursors
Michael C. Kavanaugh 613 Nov.

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- Comparison of Commercial Filter Aids
Madan Lal Arora 167 Mar.
- Constant-Rate and Constant-Pressure Filtration Look Similar—But Are They?
Madan Lal Arora 267 May
- Evaluation of Cartridge Filters for Removal of Small Fibers From Drinking Water
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- Disinfection
Committee Report 219 Apr.
- Chlorine Residual Measurement Cell: The HOC1 Membrane Electrode
J. Donald Johnson, Joseph W. Edwards, & Frederick Keeslar 341 Jun.

4241. Chlorination

- Use of Ozone and Chlorine in Water Utilities in the Federal Republic of Germany
W. Kuhn, H. Sontheimer, L. Steiglitz, D. Maier, & R. Kurz 326 Jun.
- Chlorine Residual Measurement Cell: The HOC1 Membrane Electrode
J. Donald Johnson, Joseph W. Edwards, & Frederick Keeslar 341 Jun.
- Controlling Organics: The Metropolitan Water District of Southern California Experience
Robert S. Cohen, Cordelia J. Hwang, & Stuart W. Krasner 647 Nov.

4242. Ozonation

- Use of Ozone and Chlorine in Water Utilities in the Federal Republic of Germany
W. Kuhn, H. Sontheimer, L. Steiglitz, D. Maier, & R. Kurz 326 Jun.
- The Mulheim Process
Heinrich Sontheimer, Ewald Heilker, Martin R. Jekel, Heinrich Nolte, & Franz H. Vollmer 393 Jul.

4250. Softening and Iron-Manganese-Color Removal

4260. Fluoridation and Defluoridation

4270. Antiscale and Anticorrosion Treatment

- Corrosion Control by Deposition of CaCO₃ Films: Part 3, A Practical Approach for Plant Operators
Douglas T. Merrill & Robert L. Sanks 12 Jan.
- Is Your Water Stable and What Difference Does It Make?
Michael D. Curry 506 Sep.

4280. Chemical Handling and Feeding

4290. Industrial and Boiler Water

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- The Duluth Experience—Asbestos, Water, And the Public
David L. Peterson 24 Jan.
- Determination of Vinyl Chloride Migration From Polyvinyl Chloride Pipe Into Water
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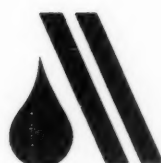


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Our Thanks

The editors of the JOURNAL rely on reviews by experts in the water-supply field to select the best papers from among those that are contributed to the JOURNAL. In this way the editors have been able to improve the quality of the JOURNAL

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